AUTHOR INDEX

Al-Nakeeb, S., Pearson, P. T., and Cholvin, N. R.: A Thoracic Percutaneous Lead System: Development and Evaluation, 245

Akers, W. A.: see Arthaud, L. E.

Anderson, M. S.: see Homsy, C. A.

Aragon, P. J. and Hulbert, S. F.: Corrosion of Ti-6A1-4V in Simulated Body Fluids and Bovine Plasma, 155

Arthaud, L. E., Lewellen, G. R., and Akers, W. A.: The Dermal Toxicity of Isoamyl-2-Cyanoacrylate, 201

Atsuta, M., Nakabayashi, N., and Masuhara, E.: Hard Methacrylic Polymers. III. Copolymers of Ethylene or Trioxyethylene Dimethacrylate with 2,2-Di(4-methacryloxyphenyl)-propane, 479

Auslaender, B. A.: see Predecki, P.

Baier, R. E., Gott, V. L., and Dutton, R. C.: Thromboresistance of Stellite 21: The Role of an Adventitious Waxy Contaminant, 465

Ball III, G. L.: see Salyer, I. O.

Barker, Jr., R. E., Rafoth, R. F., and Ward, R. W.: Thermally Induced Stresses and Rapid Temperature Changes in Teeth, 305

——: see Chen, R. Y. S.

Beckham, C. A.: see Greenlee, Jr., T. K.

Beemsterboer, G. L.: see Salyer, I. O.

Boretos, J. W., Detmer, D. E. and Braunwald, N. S.: Factors Influencing Longevity of Low-Profile Prosthetic Heart Valves, 185

——: Tissue Pathology and Physical Stability of a Polyether Elastomer on Three-Year Implantation, 473

Brasunas, A. De S.: see Gettleman, L.

Braunwald, N. S.: see Boretos, J. W.

Bruck, S. D.: Macromolecular Aspects of Biocompatible Materials—A Review, 173

Burse, A. B., Swartz, M. L., Phillips, R. W., and Dykema, R. W.: Comparison of the *In Vitro* and *In Vivo* Tarnish of Three Gold Alloys, 267

Carmen, R. and Mutha, S. C.: Lipid Absorption by Silicone Rubber Heart Valve Poppets—In-Vivo and In-Vitro Results, 327

Catlin, A.: see Palaia, Jr., F. L.

Chen, R. Y. S. and Barker, Jr., R. E.: Effect of Pressure on Heat Transport in Polymers Used in Dentistry, 147

Cholvin, N. R.: see Al-Nakeeb, S.

Cochran, Van B., G.: Use of Magnetostrictive Transducers for Stress Measurements within Methylmethacrylate "Bone Cement," 283

Crebo, A. R.: see Greenlee, Jr., T. K.

Cutcher, J. L.: see Lilly, G. E.

Davis, S. D., Gibbons, D. F., Martin, R. L., Levitt, S. R., Smith, J., and Harrington, R. V.: Biocompatibility of Ceramic Implants in Soft Tissue, 425

Detmer, D. E.: see Boretos, J. W.

Dorman, F. D.: see Shons, A. R.

Driessens, F. C. M.: see Vrijhoef, M.

Dunn, K. L.: see Grenoble. D. E.

Dutton, R. C.: see Baier, R. E.

Dyck, M. F.: Inorganic Heparin Complexes for the Preparation of Nonthrombogenic Surfaces, 115

Dykema, R. W.: see Burse, A. B.

Gettleman, L., Harrison, J. D., and Brasunas, A. De S.: Hypoeutectic Gold-Cobalt Alloys for Dental Castings, 25

Gibbons, D. F.: see Davis, S. D.
Gileadi, E., Stanczewski, B., Parmeggiani, A., Lucas, T., Ranganathan, M., Srinivasan, S., and Sawyer, P. N.: Antithrombogenic Characteristics of Cathodically Polarized Copper Prostheses, 489
Gilmore, R. S.: see Grenoble, D. E.
Gott, V. L.: see Baier, R. E.
Greenlee, Jr., T. K., Beckham, C. A., Crebo, A. R., and Malmorg, J. C.: Glass Ceramic Bone Implants, 235
Grenoble, D. E., Katz, J. L., Dunn, K. L., Gilmore, R. S., and Murty, K. L.: The Elastic Properties of Hard Tissues and Apatites, 221

Hampers, C. L.: see Salyer, I. O.
Harrington, R. V.: see Davis, S. D.
Harrison, J. D.: see Gettleman, L.
Hartwig, B. A. and Hench, L. L.: The Epitaxy of Poly-L-Alanine on L-Quartz and a Glass-Ceramic, 413
Hench, L. L.: see Hartwig, B. A.
Henry, R. L.: see Nalbandian, R. M.
Hermann, J.: see O'Brien, W. J.
Hochman, R. F.: see Okabe, T.
Homsy, C. A., Stanley, R. F., Anderson, M. S., and King, J. W.: Reduction of Tissue and Bone Adhesion to Cobalt Alloy Fixation Appliances, 451
Huges, A. N. and Jordan, B. A.: Metallurgical Observations on Some Metallic Surgical Implants Which Failed *in Vivo*, 33
Hulbert, S. F., Morrison, S. J., and Klawitter, J. J.: Tissue Reactions to Three Ceramics of Porous and Non-Porous Structures, 347
——: see Aragon, P. J.

Imai, Y. and Nose, Y.: A New Method for Evaluation of Antithrombogenicity of Materials, 165

Jenresen, M. D.: see Lilly, G. E.
Jordan, B. A.: see Hughes, A. N.

Kaae, J. L.: The Mechanical Properties of Glassy and Isotropic Pyrolytic Carbons, 279
Katz, J. L.: see Grenoble, D. E.
King, J. W.: see Homsy, C. A.
Kirkland, K.: see Predecki, P.
Klawitter, J. J.: see Hulbert, S. F.
Krisik, M.: see Wallin, R. F.

Lampert, R. H. and Williams, M. C.: Effect of Surface Materials on Shear-Induced Hemolysis, 499
Lattimer, J. K.: see Stanley, T. H.
Leonard, F.: see Wade, C. W. R.
Leonard, R. L.: see Salyer, I. O.
Levitt, S. R.; see Davis, S. D.
Lewellen, G. R.: see Arthaud, L. E.
Lilly, G. E., Cutcher, J. L., and Jenresen, M. D.: Reaction of Oral Mucous Membranes to Selected Dental Materials, 545
Ling, F-W.: see Okabe, T.
Lowrie, E. G.: see Salyer, I. O.
Lucas, T.: see Gileadi, E.

Malmorg, J. C.: see Greenlee, T. K.
Martin, R. L.: see Davis, S. D.
Masuhara, E.: see Atsuta, M.
Meester, W. D. and Swanson, A. B.: *In Vivo* Testing of Silicone Rubber Joint Implants for Lipid Absorption, 193
Merrill, J. T.: see Salyer, I. O.
Mooney, V. L.: see Predecki, P.
Morrison, S. J.: see Hulbert, S. F.
Most, Jr., C. F.: Co-Permeant Enhancement of Drug Transmission Rates Through Silicone Rubber, 3
Murty, K. L.: see Grenoble. D. E.
Mutha, S. C.: see Carmen, R.

Najarian, J. S.: see Shons, A. R.
Nakabayashi, N.: see Atsuta, M.
Nalbandian, R. M., Henry, R. L., and Wilks, H. S.: Artificial Skin. II. Pluronic F-127 Silver Nitrate or Silver Lactate Gel in the Treatment of Thermal Burns, 583

Navarro, A.: see Palaia, Jr., F. L.
Nose, Y.: see Imai, Y.

O'Brien, W. J., Hermann, J., and Shepherd, T. H.: Mechanical Properties of a Hydrophilic Acrylic Polymer, 15
Okabe, T., Ling, F-W., and Hochman, R. F.: Amalgamation Reaction of Tin, Silver, and Dental Alloy (Ag_3Sn), 553

Palaia, Jr., F. L., Navarro, A., Catlin, A., and Stoner, G. E.: An Improvement in the Method of Vena Cava Ring Implantations, 143
Parmeggiani, A.: see Gileadi, E.
Pearson, P. T.: see Al-Nakeeb, S.
Phillips, R. W.: see Burse, A. B.
Predecki, P., Auslaender, B. A., Stephan, J. E., Mooney, V. L., and Stanitski, C.: Attachment of Bone to Threaded Implants by Ingrowth and Mechanical Interlocking, 401
——, Stephan, J. E., Auslaender, B. A., Mooney, V. L., and Kirkland, K.: Kinetics of Bone Growth into Cylindrical Channels in Aluminum Oxide and Titanium, 375

Rafoth, R. F.: see Barker, Jr., R. E.
Ranganathan, M.: see Gileadi, E.

Salthouse, T. N. and Willigan, D. A.: An Enzyme Histochemical Approach to the Evaluation of Polymers for Tissue Compatibility, 105
Salyer, I. O., Ball III, G. L., Beemsterboer, G. L., Leonard, R. L., Merrill, J. T., Hampers, C. L., and Lowrie, E.G.: The Monsanto Polyacrylonitrile Hollow-Fiber Artificial Kidney, 59
Sawyer, P.N.: see Gileadi, E.
Schmolka, I. R.: Artificial Skin. I. Preparation and Properties of Pluronic F-127 Gels for Treatment of Burns, 571
Shepherd, T. H.: see O'Brien, W. J.
Shons, A. R., Dorman, F. D., and Najarian, J. S.: An Immunospecific Microbalance, 565
Smith, J.: see Davis, S. D.
Srinivasan, S.: see Gileadi, E.
Stanczewski, B.: see Gileadi, E.
Stanitski, C.: see Predecki, P.
Stanley, R. F.: see Homsy, C. A.
Stanley, T. H. and Lattimer, J. K.: Velour-Lined Silicone Rubber as an Artificial Bladder Material, 533
Stephan, J. E.: see Predecki, P.
Stoner, G. E.: see Palaia, Jr., F. L.
Swanson, A. B.: see Meester, W. D.
Swartz, M. L.: see Burse, A. B.

Taylor, D. F.: Porosity in Silver-Tin Amalgams, 289

Vrijhoef, M. M. A. and Driessens, F. C. M.: Comment on "Quantitative and Qualitative Changes of Spherical Gamma Particles Resulting from Amalgamation," 471

Wade, C. W. R. and Leonard, F.: Degradation of Poly(methyl 2-cyanoacrylates), 215
Wallin, R. F. and Krisik, M.: Screening and Evaluation Materials for Thromboresistance, 49
Ward, R. W.: see Barker, Jr., R. E.
Wilks, H. S.: see Nalbandian, R. M.
Williams, M. C.: see Lampert, R. H.
Willigan, D. A.: see Salthouse, T. N.
Wilsdorf, H. G. F.: see Young, Jr., F.

Young, Jr., F. A. Wilsdorf, H. G. F.: The Effect of Cleaning an Experimental Spherical Ag_3Sn Alloy on the Tensile Strength and Fracture of Dental Amalgam, 81

SUBJECT INDEX

Aluminum oxide, 375
Amalgamation reaction of tin, silver, and dental alloy, 533
Antithrombogenicity of materials, evaluation of, 165
Apatites, elastic properties, 221
Artificial bladder, 533
Artificial kidney, 59
Artificial skin, 583
Attachment of bone to threaded implants, 401

Biocompatability of ceramic implants, 425
Biocompatible materials, 173
Bone adhesion, reduction of, 451
Bovine plasma, 155

Ceramic implants, 425
Cobalt alloy fixation appliances, 451
Copolymers of ethylene and trioxyethylene, 479
Copper prostheses, antithrombogenic characteristics of, 489
Corrosion of Ti-6A1-4V, 155

Dental amalgam, 81, 289, 553
Dental castings, 25
Drug transmission through silicone rubber, 3

Gamma particles spherical, changes of, 471
Glass ceramic bone implants, 235
Glassy pyrolytic carbons, 279
Gold alloys, tarnish of, 267

Heart valves, prosthetic, 185
Heart transport, in dental polymers, 147
Hydrophilic acrilic polymer, 15
Hypoeutetic gold-cobalt alloys, 25

Immunospecific microbalance, 565
Inorganic heparin complexes, 115
Isoamyl-2-cyanoacrylate, 201
Isotropic pyrolytic carbons, 279

Joint implants, 193

Kinetics of bone growth, 375

Lipid absorption, 327

Magnetostrictive transducers, for stress measurements, 283
Metallic surgical implants, 33
Methacrylic polymers, hard, 479

Nonthrombogenic materials, 115

Oral mucous membranes, reaction to dental materials, 545

Pluronic F-127 gels, 571, 583
Polyacrylonitrile hollow-fiber artificial kidney, 59
Poly-L-alanine, epitaxy of, 413
Polyether elastomer, stability of, 473
Poly(methyl 2-cyanoacrylates), 215
Prosthetic heart valves, low-profile, 185

L-Quartz, 413

Shear-induced hemolysis, effect of materials on, 499
Silicone rubber, 3, 193, 327, 533
Simulated body fluids, corrosion in, 155
Spherical Ag_3Sn alloy, effect of cleaning, 81
Stellite-21, 465

Teeth, thermally induced stresses in, 305

Thoracic percutaneous lead system, 245
Thromboresistance, 49, 465
Tissue
compatibility, 105
hard, elastic properties of, 221
reaction to ceramics, 347
reduction of, 451
Titanium, 375

Vena cava ring implantations, 143

Waxy contaminant, 465